

REMARKS

Claims 1-20 are in the case. Claim 20 is rejected under 35 USC § 112. Claims 1-17 and 19-20 are rejected under 35 USC § 103 over USPN 6,370,487 to Dorough in view of USPN 5,926,208 to Noonan et al., and claim 18 is rejected under 35 USC § 103 over Dorough in view of Noonan et al. and further in view of USPN 6,721,952 to Guedalia et al. Claims 1, 12, and 20 have been amended and claim 11 is hereby cancelled. No new matter has been introduced by the amendments, which are supported by the disclosure of the original claims and the specification. Reconsideration and allowance of the claims are respectfully requested.

CLAIM REJECTIONS UNDER §112

Claim 20 is rejected under 35 U.S.C. 112. Claim 20 is hereby amended as given above to overcome the rejection. Reconsideration and allowance of claim 20 are respectfully requested.

CLAIM REJECTIONS UNDER §103

Claims 1-17 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorough in view of Noonan et al. Independent claim 1 claims, *inter alia*, a system for inspecting a substrate, with a sensor that produces a video stream, a control interface, a network to transport the video stream and the control stream, a desktop having a display to present the video stream and user interface controls to control operation of the inspector by use of the control stream, and a *parser to selectively crop* the video stream *prior to delivery* of the video stream to the desktop.

Applicants first compare the primary reference against the elements of the claim as recited above, to determine wherein the primary reference is deficient. Then the secondary references are analyzed to determine whether they compensate for the deficiencies detected in the primary reference. If all of the references are deficient as to the same element or combination of elements, then the claim is patentable over the cited references.

Dorough does not describe, among other things, *the parser* that selectively crops the video stream prior to delivery of the video stream to the desktop. The cited references in combination describe a zoom function that, as explained by the examiner, provides a user with the ability to zoom in on a *low resolution full image* to obtain *high resolution sub-images*.

Applicants note that “zooming” as described in the references is not the same as “cropping” as claimed in the present application. Zooming sends the same amount of information across the network, because although a smaller portion of the object is imaged, the same number of pixels is concentrated on that smaller portion, thus creating the higher resolution sub-image from the low resolution full image. Therefore, zooming does not reduce the bandwidth required on the network. Cropping, by contrast, not only images a smaller portion of the object, but also does not increase the pixel count within that smaller portion. Thus, the bandwidth required on the network is reduced, which is a big difference. Therefore, Dorrough is deficient in at least this aspect of the invention as claimed.

Noonen et al. do not compensate for the deficiencies of Dorrough, in that Noonan et al. also do not describe cropping the video stream prior to delivering the video stream to the desktop. Thus, claim 1 patentably defines over Dorrough in view of Noonan et al. Reconsideration and allowance of claim 1 are respectfully requested.

Dependent claims 1-10 and 12-14 depend from independent claim 1, and contain additional important aspects of the invention. Therefore, dependent claims 1-10 and 12-14 patentably define over Dorrough in view of Noonan et al. Reconsideration and allowance of dependent claims 1-10 and 12-14 are respectfully requested.

Independent claim 15 claims, *inter alia*, a system for inspecting a substrate, with an inspector having a sensor, a control interface, a network, a desktop for receiving the video stream and the control stream, a display and user interface controls to control operation of the inspector across the network, a compressor to selectively compress the video stream, a decimator to selectively down sample the video stream, a *parser* to selectively crop the video stream prior to delivery of the video stream from the sensor to the desktop, and a codec to selectively set a frame rate of the video stream.

Thus, claim 15 also claims the parser as described above, which the combination of Dorough and Noonan et al. do not describe. Therefore, claim 15 patentably defines over Dorough in view of Noonan et al. Reconsideration and allowance of claim 15 are respectfully requested. Dependent claims 16-17 and 19 depend from independent claim 15, and contain additional important aspects of the invention. Therefore, dependent claims 16-17 and 19 patentably define over Dorough in view of Noonan et al. Reconsideration and allowance of dependent claims 16-17 and 19 are respectfully requested.

Independent claim 20 claims, *inter alia*, a system for inspecting a substrate, with an inspector having a sensor, a control interface, a network, a desktop for receiving the video stream and the control stream, a display and user interface controls to control operation of the inspector across the network, a compressor to selectively compress the video stream to a variable degree, a decimator to selectively down sample the video stream to a variable degree, a *parser* to selectively crop the video stream to a variable degree as specified through the user interface controls on the desktop, and a frame grabber to selectively set a frame rate of the video stream to a variable degree, where the compressor, decimator, parser, and frame grabber all reside within the inspector.

Thus, claim 20 also claims the parser as described above, which the combination of Dorough and Noonan et al. do not describe. Therefore, claim 20 patentably defines over Dorough in view of Noonan et al. Reconsideration and allowance of claim 20 are respectfully requested.

Claim 18 is rejected over Dorough in view of Noonan et al. and further in view of Guedalia et al. Dependent claim 18 depends from independent claim 15, and therefore claims *inter alia*, a system for inspecting a substrate, with an inspector having a sensor, a control interface, a network, a desktop for receiving the video stream and the control stream, a display and user interface controls to control operation of the inspector across the network, a compressor to selectively compress the video stream, a decimator to selectively down sample the video stream, a *parser* to selectively crop the video stream prior to delivery of the video stream from the sensor to the desktop, and a codec to selectively set a frame rate of the video stream, where the decimator and the parser operate cooperatively to selectively down sample the video stream to a lesser degree

when the video stream is selectively cropped to a higher degree, and to selectively down sample the video stream to a higher degree when the video stream is selectively cropped to a lesser degree.

Thus, claim 18 also claims the parser as described above, which the combination of Dorrough and Noonan et al. do not describe. Guedalia et al. do not remedy this deficiency, in that Guedalia et al. also do not describe the parser that crops the video stream prior to delivery to the desktop. Instead, Guedalia et al. describe a zoom function that provides gazing at high resolution tiles of the image, which does not decrease the required bandwidth on the network. Further, none of the references – either alone or in combination – describe the inverse relationship and selective balancing between the down sampling and cropping functions of the inspector, as claimed in claim 18.

Therefore, claim 18 patentably defines over Dorrough in view of Noonan et al. and further in view of Guedalia et al. Reconsideration and allowance of claim 18 are respectfully requested.

CONCLUSION

Applicants assert that the claims of the present application patentably define over the prior art made of record and not relied upon for the same reasons as given above. Applicants respectfully submit that a full and complete response to the office action is provided herein, and that the application is now fully in condition for allowance. Action in accordance therewith is respectfully requested.

In the event this response is not timely filed, applicants hereby petition for the appropriate extension of time. If any fees are required by this response, such fees may be charged to deposit account 12-2355.

Sincerely,

LUEDEKA, NEELY & GRAHAM, P.C.

By: 

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